

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: FAIL-SAFE

Report Number: P1499387

Luminaire Tested: MAE-G-4-120-2STD-50-90-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499387
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P189185)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-4-120-2STD-50-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 2 STD ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

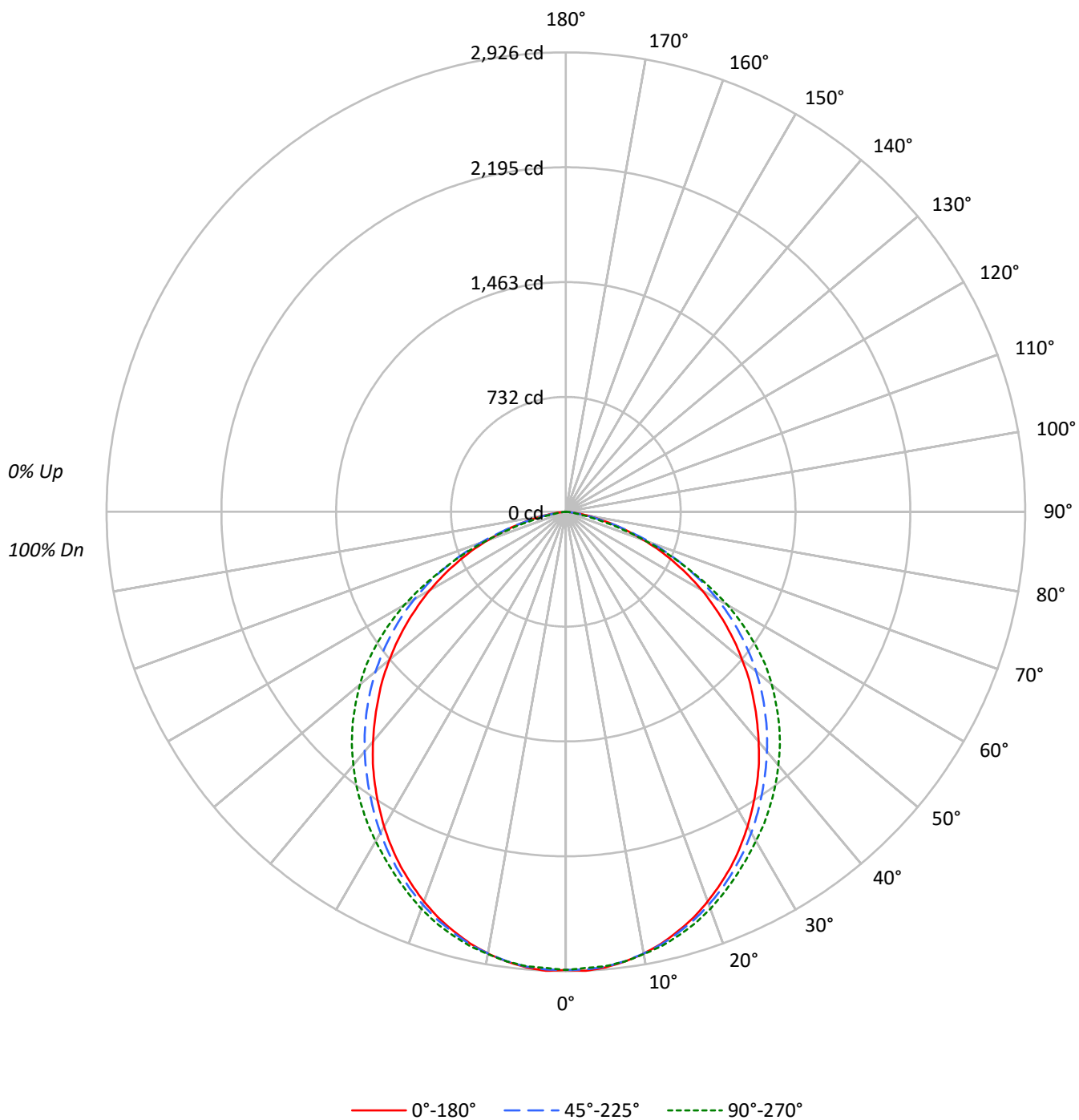
Lumens per Lamp: N/A
Luminaire Lumens: 7367.0 lumens
Efficiency: N/A
Efficacy: 107.9 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 68.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	110	105	102	98	107	103	100	97	99	96	93		95	93	91		92
2	100	93	86	81	98	91	85	80	87	82	78		84	80	76		81
3	92	82	74	68	89	80	73	67	77	71	66		75	69	65		72
4	84	73	64	58	82	71	64	58	69	62	57		67	61	56		65
5	78	65	57	50	76	64	56	50	62	55	49		60	54	49		58
6	72	59	50	44	70	58	50	44	56	49	43		54	48	43		53
7	67	53	45	39	65	53	45	39	51	44	38		50	43	38		48
8	62	49	40	35	60	48	40	35	47	40	34		46	39	34		44
9	58	45	37	31	57	44	37	31	43	36	31		42	36	31		41
10	54	41	34	28	53	41	33	28	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3927	3927	3927
5°	3934	3927	3923
10°	3904	3904	3909
15°	3851	3865	3889
20°	3783	3814	3854
25°	3699	3747	3803
30°	3597	3670	3763
35°	3483	3581	3734
40°	3354	3501	3699
45°	3217	3413	3658
50°	3068	3311	3584
55°	2899	3178	3450
60°	2694	3000	3203
65°	2429	2726	2742
70°	2074	2269	2120
75°	1628	1643	1324
80°	1059	845	508
85°	491	321	261

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 3658 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	275.6	3.7
10°-20°	781.8	10.6
20°-30°	1161.4	15.8
30°-40°	1368.0	18.6
40°-50°	1385.9	18.8
50°-60°	1206.3	16.4
60°-70°	822.0	11.2
70°-80°	328.6	4.5
80°-90°	37.6	0.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2218.8	30.1
0°-40°	3586.7	48.7
0°-60°	6178.9	83.9
0°-90°	7367.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7367.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2918	2918	2918	2918	2918	
5°	2912	2896	2908	2904	2905	276
15°	2765	2753	2775	2785	2792	779
25°	2491	2492	2524	2545	2562	1146
35°	2121	2131	2180	2238	2273	1326
45°	1691	1712	1794	1878	1922	1305
55°	1236	1262	1355	1440	1471	1104
65°	763	799	856	857	861	756
75°	313	332	316	272	255	337
85°	32	29	21	19	17	50
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2918.4	2918.4	2918.4	2918.4	2918.4
2.5°	2926.5	2907.7	2918.4	2916.5	2908.6
5°	2912.5	2895.7	2907.7	2903.8	2904.6
7.5°	2889.7	2874.0	2886.9	2885.8	2888.9
10°	2857.1	2841.3	2857.1	2858.0	2861.0
12.5°	2816.4	2802.6	2821.4	2825.3	2832.4
15°	2764.9	2753.1	2774.7	2784.8	2791.6
17.5°	2709.5	2701.6	2723.3	2736.2	2747.1
20°	2642.0	2638.1	2663.9	2676.6	2691.5
22.5°	2568.6	2566.7	2597.5	2613.3	2628.2
25°	2491.3	2492.4	2524.2	2545.0	2561.8
27.5°	2406.1	2408.1	2446.8	2471.6	2492.4
30°	2315.0	2320.0	2362.5	2396.3	2422.1
32.5°	2218.8	2227.8	2273.4	2320.0	2352.7
35°	2120.7	2130.8	2180.3	2237.7	2273.4
37.5°	2019.7	2030.7	2088.1	2155.5	2193.2
40°	1909.8	1926.4	1993.0	2067.3	2105.8
42.5°	1801.6	1820.4	1894.9	1976.1	2017.8
45°	1690.7	1711.5	1793.7	1878.0	1922.5
47.5°	1583.6	1601.4	1689.6	1777.9	1817.6
50°	1465.8	1489.4	1581.7	1669.9	1712.4
52.5°	1352.8	1375.5	1469.7	1559.8	1603.6
55°	1235.8	1262.5	1354.7	1439.9	1470.6
57.5°	1118.0	1148.6	1237.8	1308.1	1334.8
60°	1001.0	1031.7	1114.9	1170.3	1190.2
62.5°	882.9	914.7	988.1	1021.8	1025.7
65°	763.1	798.8	856.2	857.3	861.2
67.5°	649.2	678.8	720.4	708.6	702.7
70°	527.2	559.9	576.7	553.1	539.0
72.5°	419.2	442.9	440.0	405.2	388.6
75°	313.2	332.1	316.1	271.6	254.7
77.5°	217.1	232.8	201.1	159.5	142.8
80°	136.7	143.7	109.1	77.3	65.5
82.5°	73.4	72.3	46.7	38.6	35.7
85°	31.8	28.7	20.8	18.8	16.9
87.5°	11.0	9.9	7.9	7.0	5.9
90°	0.0	0.0	0.0	0.0	0.0

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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	15.67	17.25	16.03	17.56	17.88	16.63	18.21	16.99	18.53	18.84
	3H	17.09	18.51	17.47	18.84	19.20	17.82	19.24	18.20	19.57	19.93
	4H	17.48	18.82	17.88	19.16	19.54	18.03	19.37	18.43	19.71	20.09
	6H	17.66	18.89	18.07	19.25	19.64	18.05	19.28	18.46	19.65	20.04
	8H	17.67	18.84	18.10	19.23	19.63	18.03	19.20	18.45	19.59	19.99
	12H	17.66	18.78	18.09	19.16	19.59	18.00	19.13	18.43	19.51	19.94
4H	2H	16.33	17.66	16.73	18.01	18.39	17.10	18.44	17.50	18.78	19.16
	3H	17.91	19.01	18.32	19.41	19.81	18.45	19.56	18.86	19.96	20.36
	4H	18.38	19.37	18.81	19.79	20.23	18.72	19.71	19.15	20.13	20.57
	6H	18.62	19.48	19.08	19.93	20.38	18.77	19.63	19.23	20.08	20.53
	8H	18.65	19.45	19.11	19.89	20.36	18.75	19.55	19.21	19.99	20.46
	12H	18.64	19.36	19.13	19.84	20.31	18.73	19.44	19.21	19.92	20.39
8H	4H	18.52	19.32	18.98	19.77	20.23	18.84	19.64	19.30	20.08	20.55
	6H	18.80	19.46	19.29	19.95	20.42	18.90	19.56	19.39	20.05	20.52
	8H	18.83	19.42	19.35	19.93	20.42	18.87	19.46	19.38	19.97	20.46
	12H	18.85	19.37	19.35	19.86	20.42	18.86	19.38	19.37	19.87	20.43
12H	4H	18.50	19.22	18.98	19.70	20.17	18.82	19.54	19.31	20.02	20.49
	6H	18.76	19.36	19.28	19.87	20.35	18.87	19.46	19.38	19.97	20.46
	8H	18.83	19.35	19.34	19.84	20.40	18.87	19.39	19.38	19.88	20.45